

Lesson 1-4

Order of Operations

Name: _____

Date: _____

Period: _____



Homework Video Tutor

Web Code: aqe-0104

Objective: We will be able to use the order of operations to simplify expressions and solve problems.

New Vocabulary: Expression, Order of Operations

Equation vs. Expression

Equation _____

Expression _____

Order of Operations

Order of Operations- The order in which problems with multiple operations are performed to make sure everyone gets the same value.

Please Excuse My Dear Aunt Sally

1. _____ 3. _____

2. _____ 4. _____

3. _____ 5. _____

Example 1: Find the value of each expression.

a. $6 + 96 \div 3$

b. $30 - (6 \times 2) \times 3$



Quick Check: Find $(6 + 18) \div 3 \times 2$

Example 2: Suppose you buy the items shown on the store receipt. What is the total cost of the items including the tax? Write an expression to help you find the total cost.



a) \$160

b) \$170

c) \$190

d) \$1,570



Quick Check: You are paid \$7 per hour to rake leaves. Your brother is paid \$5 per hour. You worked 4 hours and your brother worked 3 hours. How much did the two of you earn together? Write an expression to help you find the total.

Homework Exercises

Show Your Work!	Corrections/Comments/Explanations
<p>(1) Use $<$, $>$ or $=$ to complete the statement. Show your work.</p> <p style="text-align: center;">$3 \times (4 - 2)$ _____ $3 \times 4 - 2$</p>	
<p>(2) Solve the following expression.</p> <p style="text-align: center;">$3(\\$28 + \\$32) - \\$10$</p>	
<p>(3) Explain the steps you would use to find the value of the expression $8 \div 4 \times 6 + (7 - 5)$. Use sequencing words (First, then, second, last, etc).</p>	
<p>(4) <i>Review (1-2)</i> For which sum is 2,200 a reasonable estimate? Why?</p> <p>a) $422 + 1,085 + 897$ b) $280 + 1,375 + 466$ c) $605 + 786 + 1,022$ d) $1,532 + 963 + 45$</p>	

(5) Challenge Insert symbols into the expression to make it true.

$$14 \quad _____ \quad 7 \quad _____ \quad 2 \quad _____ \quad 3 = 7$$